

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Drafters \(17-3012\)](#)

Associated Occupation: [Electronics Engineers, Except Computer \(17-2072\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Engineering and Technology	5.7	20.8	12.7	<<	Extensive education and/or training may be required
Design	5.2	20.6	16.9	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	19.7	11.1	<<	Extensive education and/or training may be required
Mathematics	9.2	16.8	11.1	<<	Extensive education and/or training may be required
Physics	4.3	11.6	5.7	<<	Extensive education and/or training may be required
Production and Processing	6.0	11.1	5.2	<<	Extensive education and/or training may be required
Mechanical	6.8	9.9	8.6	<	Expanded education and/or training may be required
Telecommunications	3.9	7.2	6.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Systems Analysis	6.5	12.5	7.8	<<	Extensive development of skills in this area may be required

Quality Control Analysis	5.9	11.1	3.5	<<	Extensive development of skills in this area may be required
Systems Evaluation	6.4	10.7	7.2	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	10.0	1.6	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	9.0	2.1	<<	Extensive development of skills in this area may be required
Repairing	3.4	8.6	1.0	<<	Extensive development of skills in this area may be required
Programming	2.2	8.1	2.4	<<	Extensive development of skills in this area may be required
Technology Design	2.6	8.1	2.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Electrical and Electronics Drafters (17-3012) Associated Occupation: Electronics Engineers, Except Computer (17-2072)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	14.5	13.1	<	Some improvement in abilities may be required
Information Ordering	9.9	13.3	10.7	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	12.8	7.6	<<	Extensive improvement in abilities may be required
Category Flexibility	9.0	11.6	8.4	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.0	9.9	<	Some improvement in abilities may be required
Originality	7.6	10.7	8.3	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	10.7	6.6	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	10.3	8.1	<	Some improvement in abilities may be required
Memorization	5.6	7.6	3.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 87
Focus Occupation: Electrical and Electronics Drafters (17-3012) Associated Occupation: Electronics Engineers, Except Computer (17-2072)		

Work Activities	Exclusivity of Activity
Analyze technical data, designs, or preliminary specifications	47
Communicate technical information	4
Confer with engineering, technical or manufacturing personnel	25
Confer with vendors	77
Create mathematical or statistical diagrams or charts	43
Develop plans for programs or projects	31
Direct and coordinate activities of workers or staff	3
Draw prototypes, plans, or maps to scale	57
Estimate time needed for project	64
Examine engineering documents for completeness or accuracy	62
Follow manufacturing methods or techniques	73
Prepare technical reports or related documentation	22
Read blueprints	10
Read schematics	34
Read technical drawings	7
Resolve engineering or science problems	46
Understand engineering data or reports	48
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use computers to enter, access or retrieve data	3
Use drafting or mechanical drawing techniques	50
Use government regulations	44
Use spreadsheet software	18
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 60

Focus Occupation: Electrical and Electronics Drafters (17-3012)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.